

SURGICAL MANAGEMENT OF PAEDIATRIC INFLAMMATORY BOWEL DISEASE- A REGIONAL COHORT STUDY

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Aim of study: To investigate the incidence and characteristics of surgery for paediatric inflammatory bowel disease (PIBD) in a regional centre. The incidence of PIBD is increasing in Scotland(1) and other countries. Data informing surgical management of PIBD is lacking, especially population-based data.

Methods: A surgical audit database was utilised to study surgeries in PIBD patients from 1/8/97-31/12/14 using an existing prospective database to identify incident and prevalent PIBD patients at a regional treatment centre caring for 230,000 children. Results presented as median (interquartile range).

Main Results: 394 patients with PIBD were identified, of which 65 (18%) had surgery. 61% of surgical patients were male, 80% had Crohn's disease (CD), 17% had ulcerative colitis (UC), and 3% had IBD unclassified. 21% of CD, 12% of UC and 4% of IBDU patients had surgery. 68% had intestinal procedures and 46% had perianal procedures; 14% had both. Age at diagnosis was 11.8yrs (9.4 - 13.5) and age at last follow-up was 17.8yrs (17.3-18.3). CD Patients who underwent perianal procedures were younger at first surgery (12.5yrs [9.7 - 14.2] versus 14.8yrs [12.9 - 15.8]) than intestinal procedures, despite similar age at diagnosis (10.7 [8.5-12.5] for perianal surgery and 11.0 [9.0-12.1] for intestinal). 5-year cumulative risk of all surgery in CD patients was 17%, and 9.6% for intestinal surgery. 5-year cumulative colectomy risk in UC was 9.6%. The most common procedures were total colectomy in UC, and right hemicolectomy and drainage of perianal sepsis in CD.

Conclusions: A UK regional study shows that almost one-fifth of PIBD patients undergo PIBD specific surgery, with the highest incidence of surgery in CD.

References

1. Henderson P, Hansen R, Cameron FL, Gerasimidis K, Rogers P, Bisset WM, et al. Rising incidence of pediatric inflammatory bowel disease in Scotland. *Inflammatory bowel diseases*. 2012;18(6):999-1005.